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B43L 1/00**(21)Application number : **2000-084305**(71)Applicant : **XEROX CORP**(22)Date of filing : **24.03.2000**(72)Inventor : **JAMES C MICHAELSEN
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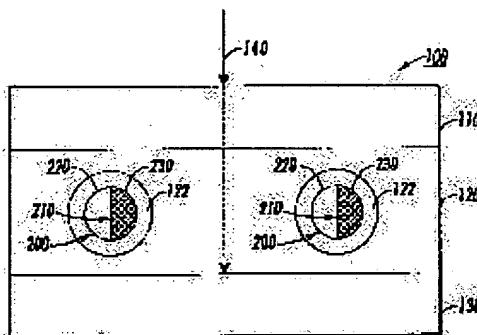
(30)Priority

Priority number : **99 275880** Priority date : **25.03.1999** Priority country : **US****(54) DISPLAY DEVICE ADDRESSABLE BY FRICTIONAL ELECTRICITY**

(57)Abstract:

PROBLEM TO BE SOLVED: To provide electric paper which is addressable by frictional electricity generated by a finger or the like, meanwhile to provide electric paper which is addressable by frictional electricity produced by a stylus connected to a power source and which, even if a finger touches the paper accidentally at the same time as the stylus, is not addressed by frictional electricity generated by the finger.

SOLUTION: Electric paper 100 has a base substrate 130, gyricon substrate 120 in which a plurality of gyricon balls 20 are buried, and an insulation layer 110. The gyricon balls 200 have optical anisotropy and electrical anisotropy giving the electric dipole moment, and respond to frictional electricity by the effect of time constants of the electric dipole moment and the insulation layer 110. Consequently, it is possible that whether the gyricon balls 200 respond to frictional electricity or not depends on this electrical anisotropy and on electrical characteristics of a film of the insulation layer 110 or of an elastomer of the gyricon substrate 120.

**LEGAL STATUS**

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